Condition Variables Exercises

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Producer-Consumer Model

- Write a simple program that uses a condition variable to demonstrate the producer-consumer model

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Condition Variable Scenario

- Typically, the consumer thread uses a unique_lock instance to lock the mutex, but the producer thread uses a lock_guard
- Why do the two threads use different lock types?

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Condition Variable Example

- Now reverse the order of the threads, so that the producer thread is started first. Add a sleep (say, half a second) before starting the consumer thread. What happens?

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Condition Variable with Predicate

- Modify your program to use a predicate in the call to wait()
- What happens?

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